

AMENDMENTS TO THE CLAIMS:

Complete Listing of Claims

Claims 1-6. (canceled)

Claim 7. (currently amended) A noise reduction circuit for an RF front end system comprising:

- a. a controller circuit
- b. a user interface connected to the controller circuit that provides user input to the controller which indicates the user's selection of an RF channel;
- c. an RF tuner receiving RF signals in multiple channels, and outputting an audio signal based on an RF signal in one of the multiple channels; and
- d. a programmable digital filter that receives the audio a signal from the RF tuner and filter program settings from the controller and then filters the signal from the RF tuner based on the filter program settings;
- e. wherein the program settings for the programmable filter determined by the controller depend on the RF channel selected by the user, and wherein the program settings for the programmable filter are determined by characterizing the audio noise of the circuit in operation ~~for each RF band~~.

Claims 8-11. (canceled)

12. (currently amended) A noise reduction circuit for an RF front end system comprising:

- a. a controller circuit
- b. a user interface connected to the controller circuit that provides user input to the controller which indicates the user's selection of an RF channel;
- c. an RF tuner receiving RF signals in multiple channels, and outputting an audio signal based on an RF signal in one of the multiple channels;
and
- d. a programmable switched capacitor filter that receives the audio a signal from the RF tuner and filter program settings from the controller and then filters the signal from the RF tuner based on the filter program settings;
- e. wherein the program settings for the programmable filter determined by the controller depend on the RF channel selected by the user, and wherein the program settings for the programmable filter are determined by characterizing the audio noise of the circuit in operation ~~for each RF band.~~

Claims 13-18. (canceled)

Claim 19. (currently amended) A noise reduction circuit for an RF front end system comprising:

- a. a controller circuit
- b. a user interface connected to the controller circuit that provides user input to the controller which indicates the user's selection of an RF channel;
- c. an RF tuner receiving RF signals in multiple channels, and outputting an audio signal based on an RF signal in one of the multiple channels; and
- d. a programmable filter incorporated in a DSP that receives the audio a signal from the RF tuner and filter program settings from the controller and then filters the signal from the RF tuner based on the filter program settings;
- e. wherein the program settings for the programmable filter determined by the controller depend on the RF channel selected by the user, and wherein the program settings for the programmable filter are determined by characterizing the audio noise of the circuit in operation ~~for each RF band.~~

20. (canceled)